Docker Hands-On: From Beginner to Expert

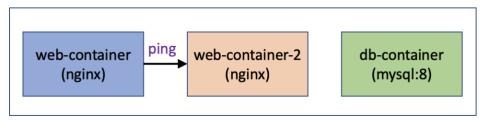
Lab: Docker Compose

Orchestrate a docker network and containers using docker compose

Overview

In this lab, you are required to follow the same pattern that we discussed for the **docker-compose.yml** file. However, you need to change the network to a different configuration as well as run additional containers.

my-network



Steps

- Download the docker-compose.yml file which is an attachment in the resources section of this lecture
- 2. Change network name: Change the network name from app-network to my-network
- 3. Add a second web container: Add a second web container
 - **a.** Use service name web-2 (the first container is using service name web)
 - b. This second web container should be added to the network my-network
 - c. Name this second container as web-container-2
 - **d.** Expose this new web container on **port 8081** (the first one is exposed on 8080)
- **4. Change the database:** Replace the postgres database with **mysql:8**Set the environment variables for this new database as follows:

- MYSQL_ROOT_PASSWORD=mypassword

- 5. Launch the infrastructure/containers using docker compose in detached mode
- **6.** Ping to verify that you can ping one container from another within the same network:
 - a. Get the ip address of the web-container-2
 - b. Open an interactive session to web-container
 - c. Do apt-get update and apt-get install **iputils-ping** within that session
 - d. Ping the ip address of web-container-2, basically you are pinging:
 web-container ----ping-→ web-container-2

(Solution discussed in next lecture)